

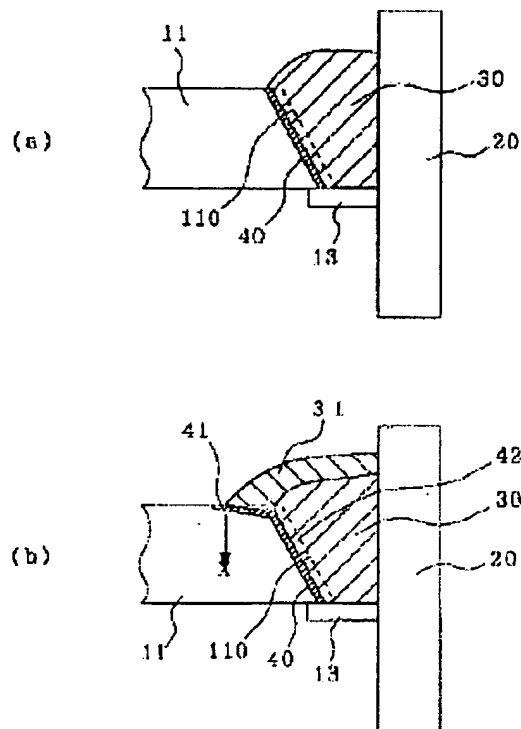
# WELDING METHOD FOR STRUCTURAL MEMBER AND WELDING JOINT

**Patent number:** JP2002172462  
**Publication date:** 2002-06-18  
**Inventor:** KATAYAMA TADATERU; KAMURA HISAYA;  
 OKAMOTO HARUHITO; KOJIMA TOSHIFUMI; HIRANO  
 OSAMU  
**Applicant:** NIPPON KOKAN KK;; SEIKEI KK  
**Classification:**  
 - international: B23K9/02; B23K9/00; B23K9/095  
 - european:  
**Application number:** JP20010301383 20010928  
**Priority number(s):** JP20010301383 20010928; JP20000300631 20000929

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## Abstract of JP2002172462

**PROBLEM TO BE SOLVED:** To provide a welding method for controlling the propagating direction of produced crack in the vicinity of a welding part, in the welding jointing of a structural member so as to prevent the deterioration in strength of a welding jointing part, and the welding jointing part. **SOLUTION:** The welding method for the structural member and the welding jointing part thereby is characterized in having a process of groove welding by mutually butting the ends to be welded, and a process of decorative clad welding over the range from the groove end on the surface side of a member provided with a groove to the position distancing by 5 mm or more in the member axis direction of a member provided with a groove, and the distance from the toe of a first welding bead to the toe of a second welding bead is 15 mm or less.



11 : 柱材	40 : 溶接金属熱影響部
13 : 亀裂	41 : 化粧盛熱影響部
20 : 通しダイアフラム	42 : 溶融部
30 : 溶接金属	110 : 開先
31 : 化粧盛溶接	X : 亀裂伝播方向

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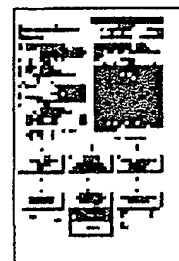
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KAMURA HISAYA;  
OKAMOTO HARUHITO;  
KOJIMA TOSHIFUMI;  
HIRANO OSAMU;**Assignee:** NKK CORP  
SEIKEI:KK  
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 2002-06-18 / 2001-09-28**Application Number:** JP2001000301383**IPC Code:** [B23K 9/02](#); [B23K 9/00](#); [B23K 9/095](#);**Priority Number:** 2000-09-29 JP2000000300631**Abstract:** PROBLEM TO BE SOLVED: To provide a welding method for controlling the propagating direction of produced crack in the vicinity of a welding part, in the welding jointing of a structural member so as to prevent the deterioration in strength of a welding jointing part, and the welding jointing part.

SOLUTION: The welding method for the structural member and the welding jointing part thereby is characterized in having a process of groove welding by mutually butting the ends to be welded, and a process of decorative clad welding over the range from the groove end on the surface side of a member provided with a groove to the position distancing by 5 mm or more in the member axis direction of a member provided with a groove, and the distance from the toe of a first welding bead to the toe of a second welding bead is 15 mm or less.

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**Family:** None**Other Abstract Info:** [DERABS C2002-677152](#)[Nominate](#)[this for the Gallery...](#)[View Image](#)

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## Derwent Record

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Derwent Title: Welding structures in building construction, involves providing decorative peak welding extending to certain distance from beveling surface of one of structures

Original Title: ☒ JP2002172462A2: WELDING METHOD FOR STRUCTURAL MEMBER AND WELDING JOINT

Assignee: SEIKEI KK Non-standard company  
NKK CORP Standard company  
Other publications from [NKK CORP \(NIKN\)](#)...

Inventor: None

Accession/Update: 2002-677152 / 200273

IPC Code: B23K 9/02 ; B23K 9/00 ; B23K 9/095 ;

Derwent Classes: M23; P55; X24;

Manual Codes: M23-D01A1(Seam welding) , M23-D02A1(Butt welding) , X24-B01(Seam and built-up welding)

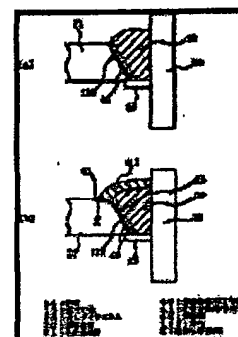
Derwent Abstract: (JP2002172462A2) **Novelty** - Edges to be bonded, one with the beveling end (110) are butt-welded and a decorative peak welding (31) is extended from the bevel surface to a distance of 5 mm or more.

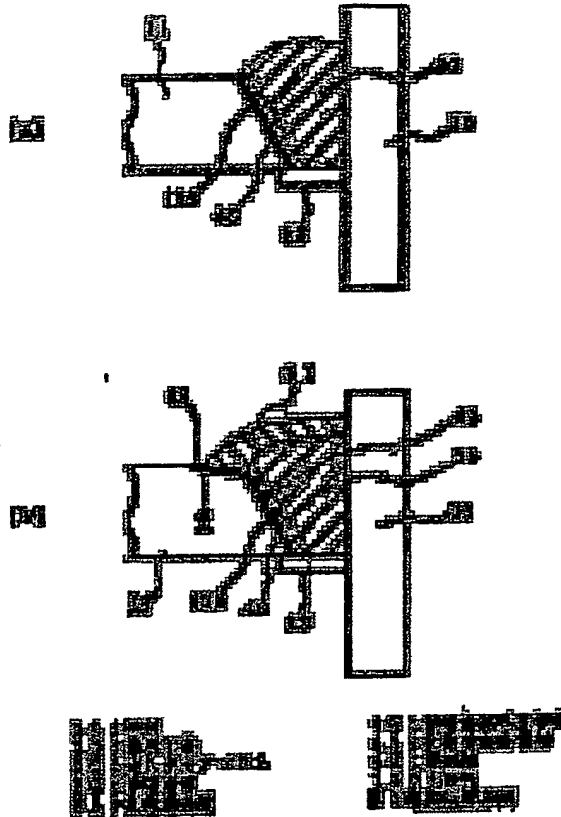
**Detailed Description** - An INDEPENDENT CLAIM is included for weld bonded portion of structural material.

**Use** - For welding structural materials, pillar, thick board material, etc., in construction, engineering works.

**Advantage** - Prevents crack generation along the welding line and prevents surface crack of base materials. Maintains welding strength making welding structure reliable.

Images:





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**Description of Drawing(s)** - The drawing shows the sectional view of welded object after butt and peak welding. (The drawing includes non-English language text).  
decorative peak welding 31, beveling end 110 [Dwg.1/11](#)

Family: PDF Patent Pub. Date Derwent Update Pages Language IPC Code  
☒ JP2002172462A2 \* 2002-06-18 200273 7 English B23K 9/02  
 Local appls.: .....

Priority Number:

Application Number	Filed	Original Title
JP2000000300631	2000-09-29	

Title Terms: WELD STRUCTURE BUILD CONSTRUCTION DECORATE PEAK WELD EXTEND DISTANCE  
 SURFACE ONE STRUCTURE

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